

Data Table 1 - Sort Raw Collection

Time To Sort By Size of Collection (Nanoseconds)										
Sort Algorithm	Type of Data	50			5000			10000		
Insertion	Random	5.351E+06	4.688E+06	5.767E+06	9.320E+07	1.285E+08	9.159E+07	8.068E+08	3.564E+08	3.524E+08
Bubble	Random	1.409E+06	1.599E+06	1.462E+06	3.407E+08	4.268E+08	3.383E+08	2.923E+09	1.316E+09	1.364E+09
Quick	Random	1.582E+06	9.393E+05	9.600E+05	2.642E+06	2.627E+06	2.614E+06	5.067E+06	4.149E+06	7.805E+06
Merge	Random	9.912E+05	9.826E+05	9.571E+05	3.957E+06	4.134E+06	4.110E+06	6.341E+06	4.393E+06	4.395E+06
Insertion	Ascending	1.109E+06	9.004E+05	8.866E+05	1.500E+06	1.335E+06	1.338E+06	3.704E+06	1.649E+06	1.658E+06
Bubble	Ascending	1.105E+06	8.846E+05	1.196E+06	1.398E+06	1.412E+06	1.390E+06	2.438E+06	2.072E+06	2.005E+06
Quick	Ascending	9.360E+05	8.704E+05	8.805E+05	1.493E+06	1.488E+06	1.487E+06	2.549E+06	2.119E+06	2.129E+06
Merge	Ascending	1.169E+06	8.927E+05	8.732E+05	1.962E+06	2.324E+06	2.129E+06	4.074E+06	2.990E+06	7.042E+06
Insertion	Descending	9.219E+05	8.870E+05	8.951E+05	1.494E+08	1.476E+08	1.472E+08	1.218E+09	5.752E+08	5.902E+08
Bubble	Descending	5.078E+06	8.514E+05	8.659E+05	3.397E+08	3.276E+08	3.267E+08	1.829E+09	1.271E+09	1.295E+09
Quick	Descending	9.656E+05	8.919E+05	9.616E+05	2.016E+06	2.902E+06	1.861E+06	2.600E+06	2.625E+06	2.571E+06
Merge	Descending	6.962E+05	7.460E+05	7.505E+05	1.547E+06	1.525E+06	1.535E+06	3.164E+06	3.117E+06	3.068E+06
Insertion	Duplicates	8.497E+05	7.168E+05	7.954E+05	7.200E+07	7.141E+07	6.903E+07	3.680E+08	2.820E+08	2.775E+08
Bubble	Duplicates	6.917E+05	6.941E+05	6.897E+05	2.774E+08	2.768E+08	2.798E+08	1.157E+09	1.108E+09	1.089E+09
Quick	Duplicates	9.243E+05	6.795E+05	6.852E+05	1.441E+06	1.439E+06	1.471E+06	2.753E+06	2.657E+06	2.572E+06
Merge	Duplicates	9.417E+05	9.365E+05	9.344E+05	1.915E+06	1.921E+06	1.907E+06	3.012E+06	2.983E+06	2.992E+06

Data Table 2 - Sorts Average

		50 Average	5000 Average	10000 Average
Insertion	Random	5.269E+06	1.044E+08	5.052E+08
Insertion	Ascending	9.654E+05	1.391E+06	2.337E+06
Insertion	Descending	9.013E+05	1.481E+08	7.943E+08
Insertion	Duplicates	7.873E+05	7.081E+07	3.092E+08
Merge	Random	9.770E+05	4.067E+06	5.043E+06
Merge	Ascending	9.782E+05	2.138E+06	4.702E+06
Merge	Descending	7.309E+05	1.536E+06	3.116E+06
Merge	Duplicates	9.375E+05	1.914E+06	2.996E+06
Quick	Random	1.160E+06	2.628E+06	5.673E+06
Quick	Ascending	8.957E+05	1.489E+06	2.266E+06
Quick	Descending	9.397E+05	2.260E+06	2.599E+06
Quick	Duplicates	7.630E+05	1.450E+06	2.661E+06
Bubble	Random	1.490E+06	3.686E+08	1.867E+09
Bubble	Ascending	1.062E+06	1.400E+06	2.172E+06
Bubble	Descending	2.265E+06	3.313E+08	1.465E+09
Bubble	Duplicates	6.918E+05	2.780E+08	1.118E+09

Sort times obtained by subtracting the end nano system time from the start nano system time.



